

NO 2

I.

49. Dated March 12th
1824

W. E. H.
Dean

A Dissertation

on the
Socale Canulum

By

William Armstrong Irvine.

of
Pennsylvania

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Among the great variety of new medicines, which have of late years been introduced into our Materia Medica, there are few articles that demand our attention more than the Eglet, whether we regard the evils or the benefits resulting from its use. at one time the scourge of Mankind, now destined to alleviate the sufferings of that sex which presents the strongest claims to our sympathy and relief. Although the good effects which arose from administering this Medicine in lingering labours had been observed many years since, yet the practice was confined to a few females, never having been noticed by the Medical men of those countries which have suffered so much from its use. we cannot, then, but be proud that it was reserved for an American Physician to introduce into regular practice

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practice an article which promises such beneficial consequences.

The Ergot is an elongated excrecence which occupies the place of the seed within the glume or husk of the rye. It has received several different appellations, at Calcar, Clavus Secatus, Scale Inquinans, Hütterhau, by the Germans, Spurred or Horned Rye-by, in English, and is known to Medical men under the name of Scale Cornutum. It is about an inch in length, of a curved form, resembling the Spur of a Cock, externally, of a dark brown colour, within whitish, brittle fracture, taste slightly bitter, something similar to the flavor of a hickory nut. As to its formation a variety of explanations have been offered, none of which are conclusive; that the disease is not confined to the rye is well known, as grain of other ² Wheat species are affected by it, tho' not to that extent, as the Rye. There is also an species of grass denominated

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denominated *Foa Glauca*, or *maiden spear* grafts, which abounds, at times, in an excrescence only differing from the Eiget in its size; which, as I shall hereafter show, appears capable of producing, among, the cattle, a disease similar in its effects to that brought on by the use of the spurred rye.

M. De Caenolle places the Eiget in the genus Scleroticum, and turns it scleroticum clavus. The propriety of this arrangement has however been objected to by Birey, who states that it is not a mushroom, but a morbid mortification of the rye itself. Among others Schmiedecker was of opinion that it was produced by a viscous honey-like substance which pointed with the root, producing a fermentation which finally terminated in the Eiget. M. Tessier, who was appointed by the Royal Society of Medicine in Paris, to visit the province of Islogne in France, where he had ample opportunity of observing the growth of this plant, considers marshy soil, abundant rains, followed by a hot sun, as the

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as the minor cause of the diseased grain. Tillet, who also paid particular attention to the formation of the diseased grains, thought that they were produced by the attack of an insect - during an examination of a parcel of Eigot, he discovered that they contained an insect, scarcely perceptible, which he thought had been hatched and nourished in that situation - The grains in which he had observed these insects he covered over with a glass tumbler; they remained in the same place, enlarged, and finally, consumed most of the Eigot. Some of them changed into Butterflies the legs, wings were thickly covered with spots of white, and of a dark brown colour (mucronis) & He thought he had perceived on the surface of a watery pot in the garden Butterflies of a similar description.

In consequence of this he supposed that they were of the same species; that they had laid their eggs on the grain, and from this source had proceeded the Butterflies which he had obtained. that by some change in their organization these grains had become Eigot, and served

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as food for these insects; that they had been metamorphosized into Butterflies, and that in their turn they would have become the cause of Eigot in working for the preservation of their posterity. Tillet acknowledges that he did not observe this to have been the case in all the grains he examined, but attributes it to the death of the insect after the Eigot was formed. This statement is corroborated by Head, Military Surgeon to the Hospital at Mysore who wrote a treatise on this subject in 1770. He thought that it was produced by the poissch of the butterfly whilst the grain was in a soft state, exciting a fermentation by the matter which it deposits, terminating in the Eigot. Not having had an opportunity of observing the progress of the Rye to the Eigot state, I am therefore not capable of deciding, whether this opinion of Tillet is correct; although there is high degree of probability in the opinion of Tillet, that the Eigot is produced by an insect, yet I am rather inclined to believe with Pissier that it may be attributed to marshy, soil and abundant

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abundant rains followed by a hot sun: that it is not confined to marshy soil I am well aware, but I consider a continued moisture followed by a hot sun as the most probable cause, and indeed from an account which I have lately seen, it would appear that the rye was affected by the rays of the sun in a peculiar manner which observation, if correct, would go far in confirming the above supposition. +

Vauquelin, Biry, and other Chemists have experimented in order to obtain the chemical constituents of the Ergot. It would seem from their experiments that it consisted 1st of a pale colouring matter, soluble in alcohol and tasting like fish oil - 2nd an oily matter - 3rd a rich colouring matter, insoluble in alcohol, and easily applicable to silk or wool - 4th an acid, probably phosphoric 5th a vegeto-mineral matter prone to putrefaction, yielding much thick oil and ammonia by distillation.

+ It is shown by Mr Thellus of 'Sertes' that he has observed a ray, of sun, after a shower of rain, of a certain direction falling on an ear of rye was sufficient to cause the membrane of the ear, containing the pollen to burst like a pop.

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It having been ascertained that to the use of the rigot
was to be referred the cause of the spasmodic and gang-
renous diseases which have ravaged several parts of
Europe, more particularly, the province of Sologne in
France. I have thought proper to insert a succinct
account of the disease; the situation and year in which
it appeared, such as I have been able to learn
from the French authors treating on this subject, which
have come within my reach.

Of the disease produced
by the rigot there are two species; the spasmodic
and gangrenous. The first of these has received the
name of Convulsio convulsis by Linnaeus and convulsio
of Sologne in France. The earliest account we have
of this disease is in a paper published by the faculty
of Marburg in Hesse, attributing it to the use of the
rigot. a large number of them who suffered by this
disease remained in a convulsive state, and those
who escaped death continued in an unhealthy,

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unhealthy condition. They suffered more particularly, during the months of January, and February; the bodies of those who died soon putrefied. The cattle were also affected by this disease.

An accurate description has been given by A. Stein of the spasmodic disease as it proceeded in Wurttemberg, in Bohemia. It commenced, says he, by a disagreeable sensation in the feet, a sort of tickling, or prickling; the stomach was soon affected by a violent cardialgia, from thence the disorder proceeded successively, to the hands and head; the fingers were so strongly clenched, that it required the efforts of ~~the efforts of~~ a strong man to overcome their contraction; the joints appeared as if they were luxated. The sick cried aloud in their agony, and complained of a burning sensation in their hands and feet; copious perspiration followed from all parts of their body. After being thus affected the head became giddy;

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were blind, and some were double.
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struck; and were no longer masters of their intellectual
faculties. Some of them became mad, and melancholy,
and others remained stupor in a comatose view.
In addition to the above symptoms it was attended
by Opisthotonus, prothrus, at the mouth of Bloody Colic
sometimes tinged with green or yellow. The tongue was
frequently torn during the violence of these convulsions.
In some cases this organ swelled in such a manner
that speech was totally prevented a large quantity
of saliva flowing from the mouth. A majority
of those, who were affected with epileptic fits, fell
victims to this disease. When the limbs, after the
sticking, became stiff with cold, they suffered loss
in their hands and feet. This kind of evils was
followed by a canine appetite, which was with
difficulty satisfied, very few had aversion for food.

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In one case a patient had sores on his neck which secreted a yellow pus in the midst of dreadful burning pains. another had spots on his feet resembling fleas, and several others had their faces covered by these spots in a horible manner. The pulse remained without an exception as in a state of health. This disease remained two, four, and even eight weeks, with intervals of repose, out of 500 who were thus affected, within the knowledge of Scribner, 300 ^{children} perished considering, as such all who were under 15 yrs. In another description given by Dr. Burroughs it appears that they, were affected in nearly a similar manner. No mode of treatment appeared capable of alleviating, their dreadfull sufferings, a remission rarely taking place before the third week. sometimes continuing, in those persons, who suffered the disease to take its course, until the second month. If after an attack of these spasms, fever supervened, attended by, violent perspiration, the chance for a recovery,

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was much greater. The number of those persons who died, were a short time before their death paralysed. In 1648, 49-50 (Bohemia) was afflicted by this disease. In the year 1698 in several parts of Germany, persons who had been in the habit of using the rye containing the Ergot were attacked with torto, pain in the head, continual nausea and swelling of the face. Strasbourg in 1702 was overrun by a convulsive disorder. In 1716-17 it made its appearance in several parts of France, Languedoc, and Provence, according to Schorrini the crops contained one fourth Ergot, and to this cause was attributed the prevailing disorder; he also states that the marshy districts suffered the most.

The second species, or the dangerous, which was received the name 'Necrosis ustulaginea', Gangrene of Sologne made its appearance in France in 1639. Pault, who was in Sologne, was informed by the physicians of that district, that this disease was

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Medured by the Elges. In 1774 Sandart was employed by the
Dutch Academy, to investigate this subject. From his
Report it appears that he was satisfied that this
disease originated from the use of bread containing
the spilted rye. Cities and Towns were ravaged
by this disorder in the year 1709. The gangrene commenced
at the toes, rising gradually to the top of the thigh,
the gangrenous parts separated spontaneously, in
some cases it was stopped by Scarification and
local applications. When amputation was resorted
to, the gangrene was not stopped, the
patients finally died, the disease having invaded
the body. Females, generally, were not affected.
It appears that in 1709. the rye in Tologue contained
one fourth Rye, and that those who fed on this
grain experienced a kind of intoxication, and
that this feeling was often followed by Gangrene
and finally that in those districts where there
was little Rye, they were not so affected.

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The gangrene, with which these persons were affected spread rapidly, and to an alarming extent; in one case it caused the destruction of the toes of one foot; after that of the other, then the remaining portions of the feet, and successively, the flesh from the legs and thighs. when this account was given the bones at the ship had commenced granulating;^{5*}

During the excessive cold of 1709 it made its appearance in the canton of Lucerne, in those of Uriach and Berne in 1715-16. A description of this disease has been given by Taugnac. He states that this disorder commenced with great lofitude, unattended by the slightest degree of fever; the extremities were becoming cold; then pale and tormented, similar to the appearance they have after a long immersion in hot water; the wrinkles were so large as to prevent the traces of the veins from being perceived. Numb, deprived of all sensibility, moving with difficulty, or evincing acute deep seated pain, which was increased by the heat of the

* Histoire de l'Academie de science for 1770
+ Acta Eruditorum for 1716.

Chapter, 17
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Chambers, or that of the bed; and only, intermitted when the patient was exposed to a cold scarcely supportable; the same extended by degrees from the ^{fore}feet to the thighs, and from the hands to the arms, until those parts became dry and sphaerulite. In several instances there was found in the gloves of those who were thus affected one or two of the digital phalanges. The other parts of the body remained in a healthy condition excepting, in those persons, who, at the commencement of the disorder, were affected by a slight degree of ^{fever}, succeeded by copious sweats which extended from the head to the pit of the Stomach; these disturbed and troubled with fayfull dreams; more particularly, when they had made use of hot Distressions. If they had only partaken of a small quantity of Eau in their food, they were not affected much, having only a heavy or numb sensation in the head, to which succeeded a kind of intoxication. Those persons who had partaken of bread hot from

1860-1861

the *Salmonidae* are
ranked as follows:
1. *Salmonidae*
2. *Clariidae*
3. *Thymallidae*
4. *Salmonidae*

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the soon, were more especially subject to this last symptom. In 1784 this disease occurred in Sologne and was very fatal; the limbs of the patients became gangrenous and separated from their articulations - some patients in the Bois-Dieu lost both the superior and inferior extremities and as the loss was not attended by hemorrhage survived for some time.

Salerne a physician

of Orléans gives an account of the gangrenous disorder which prevailed in 47+ among other cases he states that of a boy of six years who lost both his thighs, and of another who lost one thigh and the leg of the opposite side; in 28 days they were both dead. It appears that amputation rather accelerated than check'd this disorder, as out of 25 who were operated on only 4^o survived. Salerne observed that these unfortunate people were stupid, their skin yellow, the face and the white of the eyes particularly; their stomachs were hard large, and tense, that they became emaciated

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published in the *Academie des Sciences* for 1749.

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These evacuations were regular, the urine excretions
sound, but that two or three weeks before death
diarrhoea supervened, attended with colic; that they
had a good appetite and slept well. The pulse
very small and scarcely perceptible, although the
veins appeared large and swollen - on opening
a vein the blood appeared very thick and nibbled. Took
I shall notice but one other writer on this disorder
and that is Read Military Surgeon to the Hospital
at Metz, and on whose observations great reliance
seems to have been placed. He states that it commences
by acute pains in the extremities, with little swelling
unattended by inflammation, but not without fever
for the course of 15 days the pain ceased. The hands
and feet were numb, accompanied by a great degree
of cold, which could not be overcome by the application
of any warmth; this state continued for about 30 days
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to the thighs, which became sphaerulated, after this the limbs dropt from their ~~shoulder~~^{elbow} articulations. This account differs from that of Languis, as regards the temperature of the extremities. It is curious that this disorder should present such opposite symptoms. Numerous experiments have been undertaken in order to shew the agency of the Eigot in producing the disease we have just described; amongst the ~~numerous~~^{numerous} were Salerne, Toffier, and Read, on the ~~number of~~^{number of} experiments the greatest reliance may be placed. They have observed that Pigs, Turkeys, Ducks and Chickens, laid on the spurred eye, for a certain length of time, uniformly, became gangrenous, and presented many of the symptoms, which had been observed in the human system, from the same cause.

There have however been some persons who deny, that the Eigot is capable of producing disease, amongst whom are Schlegel, Färmentier, and more particularly M^a Modet, a

[†]The detail of these experiments would occupy too much space, were they inserted, suffice it to say, that the greatest reliance may be placed on their accuracy. They have been repeated in this country, with precisely the same result.

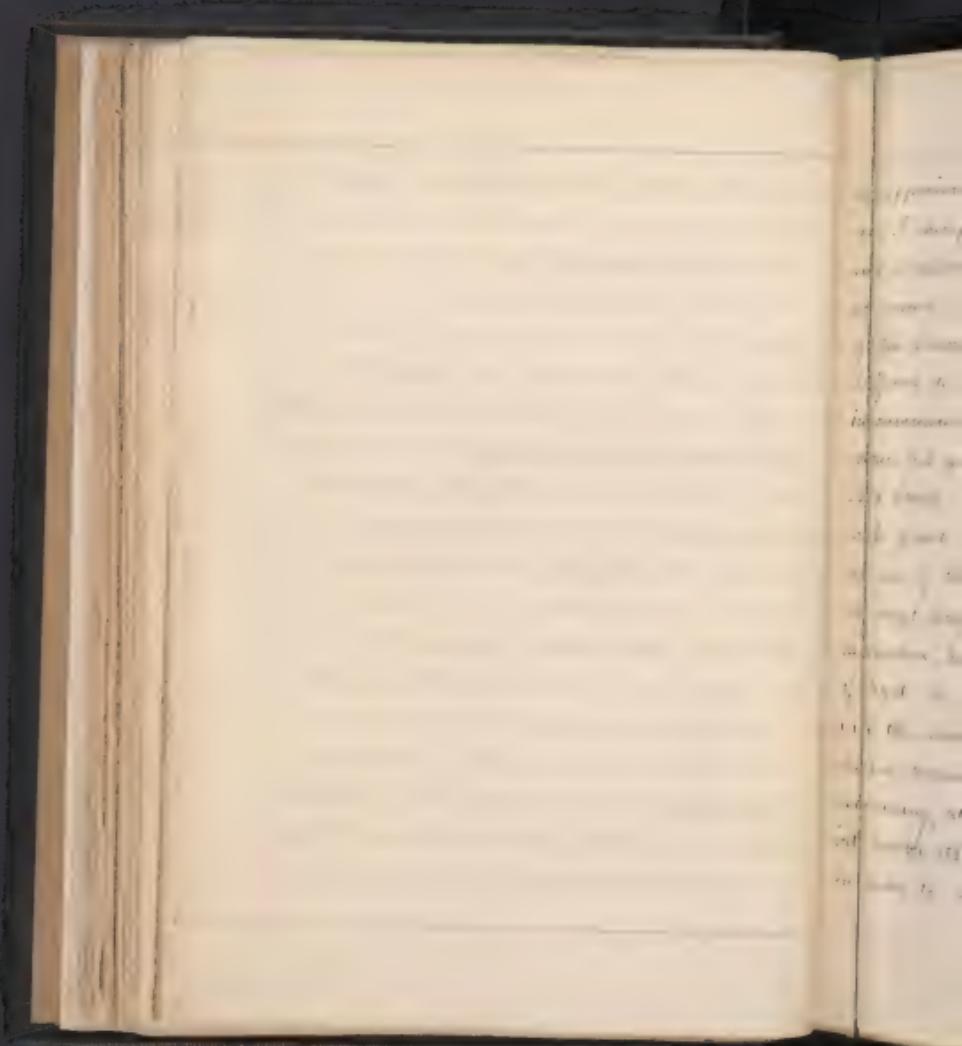
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a Russian Apothecary, who instituted a series of experiments which he considered as having, completely negatived this supposition. As his opinion has often been quoted by those persons who do not believe that the Eggst. possesses deleterious qualities I think it will be well to give a translation of part of his paper, which will shew, as I think, clearly, that these experiments were not prosecuted for that length of time, which is necessary, upon the system, under the complete influence of this Article. "His experiments were only continued for eight days, a time certainly, too short for that purpose. He first experimented on a pigeon, a chicken and a dog, supping the Eggst. with their food. He then states that these preliminaries enabled him to become the fourth subject of experiment. "I determined therefore in order to become acquainted with the labor and the effect that the Eggst. would.

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have on me, to take half a drachm ^{every morning} fasting, during, eight rays. on chewing, it for the first time I thought that it was acrid, but this soon disappeared, leaving, only a slightly, bitter and nutty taste. I felt no irritation in the throat nor any other of the symptoms which Eigot has been said to produce my sleep was tranquil during the whole of this regimen, and I had not the least headache. Altho' my pigeon, chicken, dog, and myself enjoyed the best health, it was necessary that I should be fully assured as to the effect of the Eigot: under what form said I to myself do they make use of this article? it is only after it has been converted into flour and made into bread. It is possible (I continued) that during fermentation, all these mischievous qualities are developed; since Eigot in a state of grain cannot produce any, but effect as my



my experience during eight days had convinced me. I therefore reduced the Eigot into a powder and obtained a flour of a brown colour; I mixed an ounce of it with ^{two} ounces and meal composed of the sound Rye. I made a cake of it which I suffered to become cool, in order to obviate the inconveniences of hot bread. It was of a bad colour, but good smell, and slightly bitter taste. This bread was distributed to my pensioners with great economy according to their species, not one of them were in the least affected by it. The next day, I prepared a cake of the same description, but in which I doubled the proportion of Eigot. It was equally distributed and eat with the same pleasure, without the least accident having occurred from it. I had yet four ounces remaining at my disposal, I resolved to put it into double its weight of cake composed of rye, in order to see whether the animals I accustomed

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shew any repugnance or any change which could
be attributed to its use. Their situation appeared
constantly the same. I also ate of this bread without
receiving anything particular.

* I returned my animals after this to their accustomed
nourishment and visited them constantly without
perceiving anything out of the way. They appeared fat
and very gay; my satisfaction at seeing them enjoy the
best health, was soon disturbed with the idea of their
destruction. I confess that it was not without an
internal struggle that I exposed myself to the remorse
of being cruel towards them; but the adversaries of
the Eigkeit demanded a sacrifice. It was necessary to decide— I therefore killed my pigeon and chicken— I
did not perceive, on opening the bodies of these victims,
any dangerous spot, or vestige of poison either in the
stomach or intestines. I determined not without pain to
eat them roasted as they were: my dog gnawed the bones

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and I declare neither one or the other were in the least incommoded by, so doing. I also add, that my limbs hold fast to my body, and finally, that they are sound and very strong. I am far from supposing, that the Eigst is equal to good grain; but I have shown that no bad effects can arise from its use; as has been advanced with so much confidence. However abundant the Eigst may be in our crops, it never is in as large a proportion as that used in my experiments. Altho' the number of these grains, are undetermined, we rarely, feed more than 4 or 5 in each head of rye. I do not think it necessary to add anything further on this subject. Modest's experiments carry with them the evidence of their inaccuracy, experience has taught us that a greater length of time, length of time is necessary, to produce those injurious effects which have been, with great probability, laid to the charge of the Eigst.

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We have before stated that grain of other description than that of the rye, appears capable of producing consequences similar to that of the Eigst; as regards what we have the evidence of Dr Charlton Bullock, of a family who had subsisted on disease when which they had obtained, from a neighbouring farm, having been afflicted with gangrene of the limbs, which resembled that with which Scolopax has been so often observed.

Of the disorders with which the cattle of this country have been affected there is one supposed to have been produced by the Eigst of spear grass. This complaint has prevailed in several parts of the United States, more particularly the north western parts of the State of New York. An interesting paper has been published by Dr Danell, Secretary to the agricultural society of that State, descriptive of the disease which prevailed in the year 1820. The great resemblance between this disorder and that Gangrene of Scolopax is

This account is to be found, in the Agricultural Transactions, and in the ~~Transactions~~
Reports for 1826.
Published in New-England, by the Proprietors of the New-England Journal.

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is very remarkable, and as this resemblance is of importance, as additional evidence of the deleterious effects of the spurred rye, when used to a certain extent; I will take the liberty, of making, use of a few extracts from this paper. Dr. Shewell, states that the first symptoms which were observed was a lameness in the feet (McHeek noticed that his cattle kept a continual stamping, with their hind feet in the morning, two or three days before he discovered any lameness) Slaverings at the mouth, in some instances vomiting, insensibility, the feet surging above the hoof in the hind legs, frequently, the fore feet were not at all affected. In this stage, if the leg was punctured, there issued out a bloody serum. Mortification commences almost as soon as the disease is discovered and runs up the legs in about two weeks, when it forms a separation from the living flesh, in about two weeks more the legs fell off at the sevated parts- sometimes at the pastern joint, but more frequently above it; the skin was of the mortified

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and ~~say~~ ~~say~~ ~~say~~
and ~~say~~ ~~say~~ ~~say~~

[mortified part, soon becomes hard and dry, and has the
appearance of what is denominated dry gangrene.
The appetite for food continues good; the countenance
aspreased and shrunk in the head, their natural
excretions continued regular; they lie down and as if
useless of their situation make no attempt to rise." -
We see in this account many symptoms that coincide
with the descriptions that have been given of the
gangrene of Sologne. The insensibility of the feet,
the gangrenous condition of the limbs, the general
appearance - agree so well with the effects produced
by the Eigot; that we cannot for a moment doubt
what cause to refer it to, more particularly when we
have sufficient ^{reason} that these cattle were fed on grass
which abounded in Eigot. Of that species of grass which
produces the Eigot there are three: the one we are about
to consider is the Poa trivialis or meadow grass; and
on hay made of this species of grass were fed
those cattle whose disorder has been described above.

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Dr. Russell mentions that this grass contained a quantity of ergot that year - he then goes on to say, "The facts on which the cause of this disease rest, were striking and convincing to most of those in the district of the country where the disorder prevailed. Mr. Elihu Stawton lost 24 cattle all of which had been fed on this kind of hay. Mr. Reeve lost 14 and what is remarkable he sold a load of this hay to widow Cox before the least suspicion was entertained as to its poisonous qualities and three of her cows took the disease ten days after she began to use this hay. Mr. G. Little procured some of the same hay, from Mr. Reeve, which produced the same effect on his cattle. Mr. Mose Phillips had a meadow of this grass two miles from this village which he cut before harvest; he sent 14 of his cattle there to be fed on this hay and which was full of ergot; the consequence was that 5 took the disorder and altho' they were taken home and yarded with the other cattle no others took. Some cases occurred in Florida (N.Y.) particularly amongst the

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the cattle of Phineas Tompkins, he had cut two stacks of
the ... spear grass on the 5th of July last, and concluding
it as having been secured in good order, he resolved to
keep it until during the latter part of the winter he
began to "the" hay about the 4th of March and four of his
best cows took the disease soon after. The result, that
took place with regard to a number of cattle is as follows. There
were that Mr. H. G. of Blooming grove, used the
same kind of hay and with the same unfavorable
results; having 10 out of cattle rendered useless by the
kind of hay they turned on the 1st. have informed
the we are about to the winter.

The above extracts are sufficient to say, limited to those that the author has calculated by his own theory, a key containing 350 entries at an average rate of 2000 words of the text of the Hawaiian drama.

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conditioned.

Having considered the evil consequences which have resulted from a continued use of the spurred eye, we will return to a more pleasant task, that of recording the beneficial effects attending on its use as a medicine. The earliest account I have met with of its employment in accelerating lingering labours, is in the Dictionnaire d'Anatomie Naturelle, by Bonnaterre, in which work he states that, he had read in the Journal de l'Académie for August 1774, that Mme Dupille & Chaumont in Paris, whose principal occupation seems to have been the care of the sick who were in want of relief, she was in the habit of administering to ~~children~~ ^{adults} (according to the directions of her mother) in lingering labour, a thimbleful of ~~eggs~~ ^{defused} dissolved either in wine, broth, or water. when the child presented well, labour was accomplished in a half an hour; and that these women were not injured by the use of such a remedy. But it would appear that this practice either fell into disuse, or never was noticed by regular practitioners.

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or that it never was noticed by regular practitioners,
at the same time it is curious that it should not have
attracted the notice of those Physicians, who were in
the constant habit of seeing persons diseased from the
use of the Egg. For when we consider the wide
prevalence of this disorder, and that females must
in all stages of pregnancy have partakes of a
sufficient quantity of Egg to have produced
+ abortion; yet we do not find any such effects having
taken place. The only account I have met with of
females having been affected in a peculiar manner
is in a description given by I H Burghard, of
Convulsio Cervicis in Silevia. In which it is stated
to have continued much longer in females, and was
extremely violent about the menstrual effort; after
this had taken place they did not complain much,
unless it was of great prostration, until the
return of the menses ushered in new sufferings.
On the other hand it is stated by most that females

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were not generally affected by the big gangrene which attended Oceans and Blairston in 1709. How to explain this exception I am unable, yet such is the fact.

Do Doctor Stevens of New York or we to owe the recent changes introduced into regular practice the Credit as entirely in helping labours; and undoubtedly we have given to produce in the hands of Skillfull men, all the good effects which could have been expected by its warmest friends.

As much has already been said by Dr Stevens and other practitioners, as in the proper cases, and modes of exhibition in labour, that I think a repetition in this place, unnecessary. From the known fact, that Heat has a specific action to the uterus, we should be led to the conclusion, that we would find in this article a useful remedy for several of those disorders, to which this organ is liable, and on which depends in so great a degree the health of women; accordingly this



Medicine has been tried on Aspermatoma, but not with the success that might have been expected. From the action of Ether which is prompt and continuing for more than a few minutes, it would seem to be only a slight one there can, kept up by the formation of one membrana decidua - and indeed Doctor Chapman mentions two cases in which this article was found to fail in expelling the membrane. Still a total insufflation of the uterus may originate from this cause, as, I think, in a certain, and to such case would I mention the "gas" as peculiarly suited. I could not only use it as a mechanical remedy, exciting the uterus ^{to move} to detach and throw off the membrane; but also, with the irritation increasing the flow of blood to those parts, and by that stimulus inducing the uterus to exert its proper nervous action. I am indebted to Dr Richard Lovell of this place, for the detail of the following case which shows in a clear point of view, the superiority

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of this medicine in those cases, to which I have considered it as peculiarly applicable.

"S. B. a young girl of about nineteen years of age, by trade a milliner, had been labouring under a supposed catarrh, for more than seven months, when she applied to me for relief after ascertaining the symptoms which marked her case, and the remedies that had been unsuccessful, employed by the physician who had attended her, I was persuaded that the cause of her disorder, might be referred to the membrana decidua; and that the only hope of affording her permanent relief, was in effecting the expulsion of that morbid production. I recollect having read many years ago, in the *Catlectic Repository*, a very interesting paper by Dr Chapman on the use of

the *Tolygata Senega* in such cases as I apprehended this to be. I therefore determined to make a trial of this medicine. I directed it to be prepared and

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administered, as I recollect by Dr. F. C. in the
several cases which came under his care; but after
hesitating in its use for several weeks, ~~accidentally~~
laying it aside, I could discern no evident
improvement in my patient. As almost all remedies
belonging to the class of Chalybatics, had been fully
administered to this girl before she came under the
care, and being disengaged from a mixture of
the Lettuce, I next determined to make a trial
of the Root. The decided efficacy of this medicine
in promoting the speedy expusion of the fetus
in lingering labour, gave it a strong recommendation
to my notice, in those cases where we had reason
to believe the membrane exists. My method of giving
and administering the Root was as follows— I
directed 4g of the powder to be put in a vessel, a pint
of water and boiled away ~~four~~^{third} ~~four~~ ^{third} part. The patient
was to take the third of the decoction thus prepared,
every hour until strong pains commenced in the

in the uterus: then suspending a further use of the
Mercuria for eight or ten hours; when the same mode
of proceeding, was to be renewed. This practice was
observed in for two or three days in succession, when
I received the gratifying intelligence from my
Patient that she had discharged a substance of a
membranous nature, of the size, as she said, of a dollar.
I regret that this substance was not preserved and
submitted to my inspection. I have no doubt however
of its being that genuine adventitious Membrane
denominated Membrana Cœcidua. The discharge
began immediately followed its evulsion, and
continued to flow for three days. It is now six months
since this patient was under my care; she continues
to menstruate regularly, at the usual intervals. The
whole quantity of blood did not exceed $2\frac{1}{2}$ pds.—
I cannot but believe that the Elixer would on
more extended trial be found usefull in those cases
of Amenorrhœa not kept up by the Membrana Cœcidua.

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For I am of opinion that many cases depend as much upon a languid circulation, in the uterine region, as by an atonic state of the uterus, induced by the absence of the stimulus, blood, which is determined to these parts, in a state of health, at periculum intervals; as upon a perverted action of the uterus itself. For we see ~~in~~ many cases of amenorrhœa are attended by an enfeebled state of the system, and consequently a languid circulation. That when Tonics are given to restore it to a state of ~~feebly~~ strength, that on this event taking place, the circulation is increased, and that frequently, the menstrual discharge takes place. I would endeavour to explain it in the following manner - That the blood not being determined in a sufficient quantity, to those parts, owing to an enfeebled state of the circulation, the uterus falls into an atonic state - that on tonics being imparted to the system, the circulation and the volume of the blood is increased, and that

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that from the present stimulus of the blood, tone is imparted to the uterus enabling it to perform its proper function when the ~~uterus~~ ^{ovary} is removed, and that the ~~uterus~~ ^{ovary} is now no longer able to do its function, but to see many cases of amenorrhœa in which there is increased circulation, and that in this case there certainly must be sufficient stimulus of blood present to bring about the ~~uterine~~ ^{ovarian} secretion. I would answer that in this case there is an over stimulus applied, disabling the uterus from exerting its proper secretory power. The stimulus being, so great, that it produces an atonic state of the uterus.

The proof of this may be found in the circumstances of the best effects having been produced by bleeding, in such cases. as an illustration I might give the apprehended pulse, in which case ^{is owing} to the great dilatation of the blood, impairing thereby the vital functions, in blood being obstructed. ^{their} ~~their~~ action is restored, again altho' there may be an increased circulation, the blood may be distributed to other parts, by causes with which we are unacquainted,

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believe that in some instances, the blood which should have been thrown off by the uterus, is often discharged through the medium of the Stomach, or by Epistaxis. Besides, those cases which I have alluded to are not those of increased, but of diminished circulation. Now in such cases the indications would be. 1st to strengthen the system, and by that means increase the circulation — 2nd to produce a proper determination of blood to the uterus — For fulfilling the first indication I would make use of Remedies which would tend to strengthen and invigorate the system. This point gained, I would, in order to accomplish the second indication I would resort to the Ergot which by the irritation and stimulus, would occasion a determination of blood to these parts.

There are persons who object to the Ergot that its effects are too transitory to do good. That its action does not continue for any great length of time I am well aware,

But I think if applied at a proper time and in a proper manner, it would have the effect of awakening the tibiae, if I may be permitted the expression, to its proper action.

Of the employment of the Ergot in uterine haemorrhagy, I know nothing; but from its action I would consider it as eminently calculated for that purpose. It has also been used to restrain flooding with much success. At the whole I am of opinion that on a more extended trial of the Ergot it will acquire, and justly too, an increased reputation.

que non solo contagiando la carne la mata
sino que destruye el organismo entero
y lo convierte en un animal de poco provecho.
Algunos animales no se contagiaron
y siguen vivos y sanos. Algunos
animales se contagiaron y murieron. Algunos
animales se contagiaron y vivieron pero
no se multiplicaron. Algunos animales
se contagiaron y vivieron y se multiplicaron.

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